

# VIDEO SERVER DATASHEET



There are four standard variants of the Autocue Video Server, each with two or four bi-directional ports, a range of storage capacities and single or dual power supplies.

The storage component and the I/O ports can be combined in a number of alternative ways when working across multiple units. This may help optimise your workflow for larger systems, depending on your exact workflow requirements. You can, for instance, configure a central storage node for the whole system with several port-only units for ingest and playback.

## Standard Models

Models	Two-Port SD/HD	Four-Port SD/HD	Four-Port HD	High Capacity Four-Port HD
Part code:	VS-2D02-H	VS-4D06HBN (single PSU) VS-4D06HFR (dual PSU)	VS-4D08HFN (single PSU) VS-4D08HFR (dual PSU)	VS-4D16HFR
Ports:	2-ports HD/SD	4-ports SD/ 2-ports HD	4-ports HD/SD	HD/SD
Useable storage:	2TB	4.5TB RAID5	5.4TB RAID6 hot swappable	12TB RAID6 hot swappable
Power supply:	Single PSU option only	Single and dual PSU options	Single and dual PSU options	Dual PSU included as standard
Video I/O:	SDI (SD/HD), component video, S-video, composite NTSC/PAL and HDMI (optional)			
Audio I/O:	2 channels embedded in HD and SD (SD and HDMI), balanced on ¼" audio jacks or unbalanced on AES/EBU			
Dimensions (L x W x H):	43.1x42.5x13.5cm (3U)	67x42.5x13.5cm (3U)	67x42.5x13.5cm (3U)	67x42.5x13.5cm (3U)

## Control Options

- Keyboard and Mouse connected to the server
- Remote Access via a PC
- ShuttleXpress
- ShuttlePro
- JL Cooper (JLCooper ES-450 SP RS-422)
- Touchscreen 7" and 15" Monitors



# FORMAT AND CODEC SUPPORT

File Formats Playback	.avi / .divx / .avix / .xvid : (AVI) .qt / .mov : (Quicktime) .mp4 : (MPEG-4 container format) .dv / .dif : (SD DV raw stream) .mxf	Variable frame rate material is not supported.  Files must contain one PAL or NTSC video track. Audio must be embedded in the DV frames as stereo 16-bit. Only MXF OP-1a files are currently supported. DV and MPEG-2 (I-frame only) encoding supported, including IMX and XDCAM material.
	MPEG (.mpeg, .mpg, .m2p) ASF (.asf, .wmv) GXF (.gxf) Flash Video (.flv)	These formats are supported for end-to-end playback only.
	.avi / .divx	Generates one video track (using any supported codec) and one or more uncompressed audio tracks. DV-in-AVI supports type-2 only.
	.dv / .dif (SD DV raw stream)	Generates PAL or NTSC video (720x576 @ 25fps or 720x480 @ 29.97fps) with stereo 16-bit audio, encoded in a DV stream as DVSD, DVCPRO-25 & DVCPRO-50.
	.mxf	Only MXF OP-1a files are currently supported. DVSD, DVCPRO 25/50, MPEG-2 IMX-30/40/50 and MPEG-2 Intra HD encodings are supported
File Formats Capture  (All formats support play during record)	.mov (QuickTime)	Generates one video track and one or more uncompressed audio tracks. Optionally a closed-caption track may also be included. Audio must be 16-bit signed, big or little endian. Video encodings supported in QuickTime include MPEG-4 part 2, DNxHD/VC-3, DV video (DVSD and DVCPRO25/50), ProRes (available only as a specific option), and MPEG-2 (including XDCAM).
		All formats support play-during-record.
Video Encoding Playback	Supported encoding for playback include: <ul style="list-style-type: none"> <li>DVSD (SD DV video), DVCPRO-25, DVCPRO-50 &amp; DVCPRO-100</li> <li>MPEG-1, any GOP length, SD only, up to 25 Mbits/sec</li> <li>MPEG-2 &amp; MPEG-4 part 2, any GOP length including I-frame-only, SD or HD (plus any resolution up to 4K on optional hardware), up to 200 Mbits/sec</li> <li>DNxHD (8-bit or 10-bit)</li> <li>AVC / h.264 / MPEG-4 part 10</li> <li>ProRes (on certain optional hardware configurations)</li> </ul> Optional formats include: h.263, MJPEG (SD or HD, up to 100 Mbits/sec), SMPT VC-1 and Sorensen SVQ1 & SVQ3.	
Video Encoding Capture	The following encodings are supported for capture: <ul style="list-style-type: none"> <li>DVSD, DVCPRO-25/50</li> <li>DNxHD (8-bit only)</li> <li>MPEG-1, MPEG-2 &amp; MPEG-4 part 2, SD or HD, I-frame, up to 100 Mbits/sec.</li> </ul> Optional formats include: MPEG-1/2/4 long GOP, h.263, MJPEG (Motion JPEG), ProRes.	
Audio Encodings: Playback	The following audio formats are supported for playback: <ul style="list-style-type: none"> <li>Uncompressed</li> <li>MPEG-1 layers 1, 2 &amp; 3 (MP3), AAC, and many other encodings</li> <li>All internal audio processing is PCM. Sample types, channel widths, and sample rates are freely convertible within the system. Currently capture and output are 48 KHz 16-bit PCM</li> </ul>	
Audio Encodings: Capture	Audio is captured uncompressed, 16-bit PCM at 48 KHz, with support for 2, 4 or 8 channels (dependent upon the input connection in use).	
Closed Caption Encodings	CEA-608 (SD inputs only) and CEA-708 (HD inputs only) closed captions are supported for SD and HD operation respectively with QuickTime files only. Only the specific "c608" and "c708" QuickTime caption track formats are currently supported.	
Video Standard Support	SD formats:	<ul style="list-style-type: none"> <li>720x576 @ 25fps (PAL)</li> <li>720-480/486 @ 29.97fps (NTSC)</li> </ul>
	HD formats (only supported by certain models):	<ul style="list-style-type: none"> <li>720p (1280x720 @ 50/59.94/60fps)</li> <li>720p (1280x720 @ 25/29.97fps) handled with upconversion by frame doubling</li> <li>1080i (1920x1080 @ 50/59.94/60 fields per second)</li> <li>1080p (1920x1080 @ 25/29.97/30fps)</li> <li>Automatic rescaling allows non-standard material to be rescaled during playback</li> <li>Automatic frame rate conversion (without motion interpolation) is available with all formats</li> </ul>
	Video sampling and Colour Space:	<ul style="list-style-type: none"> <li>4:2:2 YUV for capture at the input connectors</li> <li>4:2:2 YUV for playback at the output connectors</li> <li>4:4:4 RGB/YUV internal processing</li> </ul>
	Colour precision:	8-bit or 10-bit depending on file format and video codec in use
	Network:	<ul style="list-style-type: none"> <li>Network access via 10/100/1000BaseT connector</li> <li>Shared access to media content is via CIFS/SMB networking provided by SAMBA, also optionally via NFS or FTP</li> </ul>
Note on File Format / Video Format combinations:	<p>DIF (.dv) files only support DV family formats and can only accept DV stream formats. DIF files cannot accept encodings with separated audio streams. Supported profiles for DIF files are DVSD-stream profile which encodes consumer 25 Mbps and DVCPRO-25 &amp; -50 streams.</p> <p>AVI files can only accept encodings with separate audio and will not work with DV stream encodings. DNxHD, IMX, MPEG-1/2/4 (part 2) and DV (with separate audio) can be recorded into AVI files.</p> <p>MXF files also only accept encodings with separate audio and will not work with DV stream encodings. MPEG-2 Intra HD, IMX-30/40/50, DVSD and DVCPRO-25/50 can be recorded into MXF files.</p>	

This datasheet was correct at the time of printing but is subject to change – please check with sales@autocue.com for the latest specifications.

**Tel: +44 (0) 208 665 2992 (UK) or +1 (212) 929 7755 (US)**